

Technical Disclosure Commons

Defensive Publications Series

November 20, 2018

SECURITY LOCK MODULE DESIGN

HP INC

Follow this and additional works at: https://www.tdcommons.org/dpubs_series

Recommended Citation

INC, HP, "SECURITY LOCK MODULE DESIGN", Technical Disclosure Commons, (November 20, 2018)
https://www.tdcommons.org/dpubs_series/1667



This work is licensed under a [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/).

This Article is brought to you for free and open access by Technical Disclosure Commons. It has been accepted for inclusion in Defensive Publications Series by an authorized administrator of Technical Disclosure Commons.

Security lock module design

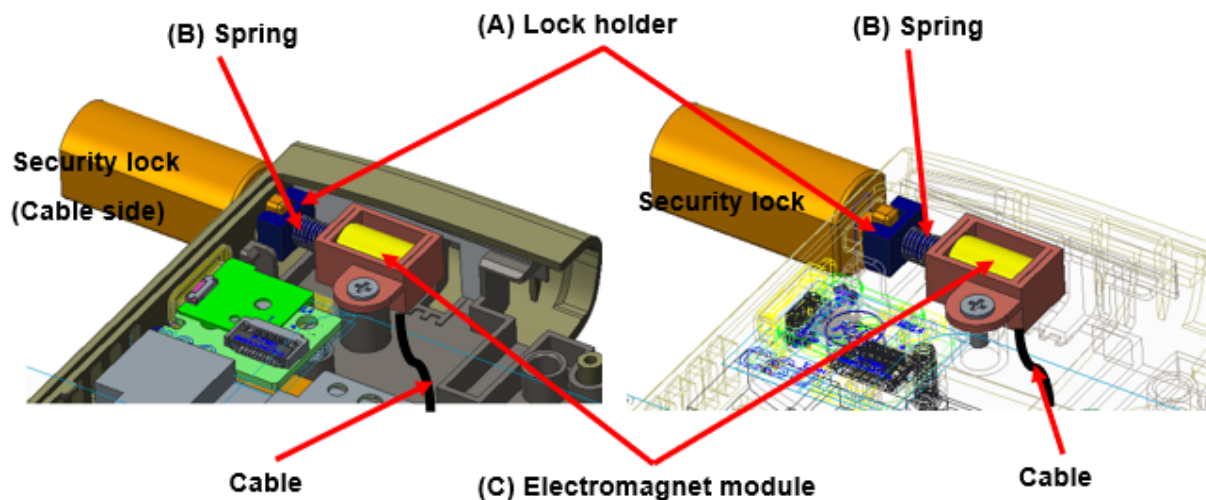
New design concept for Notebook security lock which will not need a key; it can use the user authentication methods to unlock the Notebook.

By using this security lock module design, you will;

- 1) No cable lock key design.
- 2) Use the same way of Notebook login to release the security lock.
- 3) Use the same design of Kensington slot dimension.
- 4) More facilitate and more security.

New security lock module solution:

- Concept:



(A) Lock holder.

(B) Spring. → Push out "Lock holder" to hold security lock (cable side).

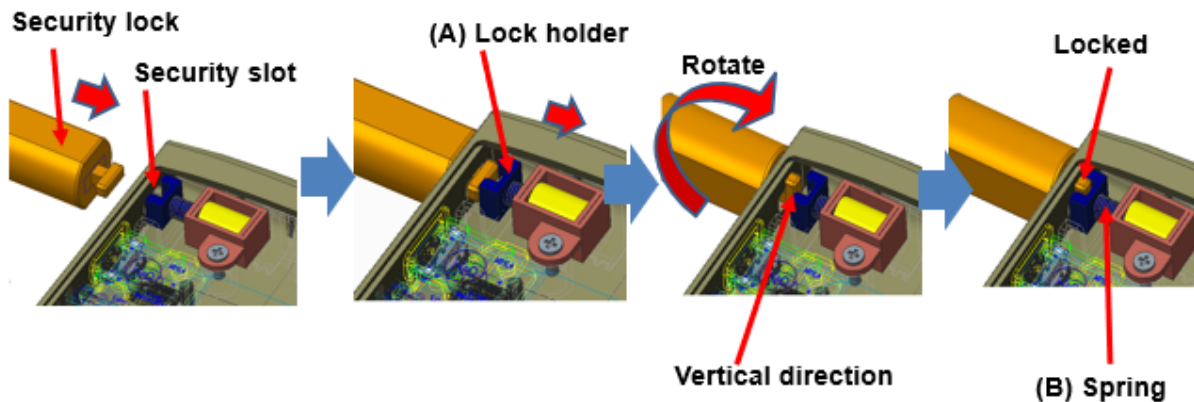
(C) Electromagnet module. → Pull backward "Lock holder" to release security lock (cable side).

- Operating principles:

1) Lock process:

- Insert security lock into security slot.
- Security lock will push "Lock holder (A)" to move backward.
- Rotate security lock to vertical direction.
- Lock holder (A) will move forward by Spring (B) bounced back. Then the lock holder to block the

security lock to rotate.



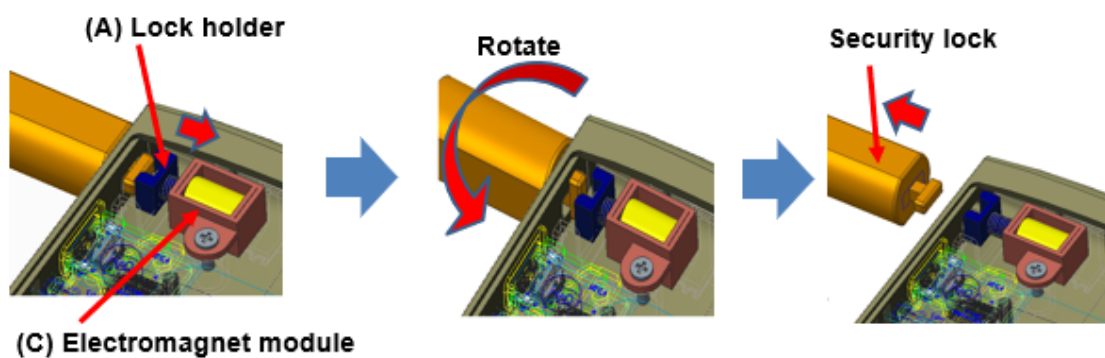
2) Unlock process:

- User authorized to release the security lock.

It doesn't have key in lock cable side. User can unlock the Notebook by below methods.

- Password.
- Fingerprint / Iris scan.
- Face recognition
- Ping ID.

- System will send the power to "Electromagnet module (C)". Then to pull backward Lock holder (A).
- Rotate security lock to horizontal direction.
- Release the security lock. (cable side)



Disclosed by Ben Chuang, Kun-Hung Lin and Roger Chang, HP Inc.